

Safety Data Sheet
in accordance with Regulation 1907/2006/EC

Print date: 10.01.2024

Version number 2.1

Revision date: 10.01.2024

Trade name : FINEAMIN 15

SECTION 1: Name of the substance or mixture and the undertaking**·1.1 Product Identifier****Titled: FINEAMIN 15****·1.2 Relevant identified uses of the substance or mixture and uses that are discouraged**

No other relevant information available.

· **Use of the substance/mixture:** additives for water-steam and cooling circuits**·1.3 Details of the supplier providing the safety data sheet****· Manufacturer/Supplier:**

h2o facilities sa
of. des Grandes-Communes 8
CH-1213 Petit-Lancy, Geneve
Tel. +41-22-879 9500
Fax +41-22-879 9509
info@h2o-f.ch

CWB Water Treatment GmbH
Glider Dam 85
D-12487 Berlin
Tel. +49-30-67893751
Fax +49-30-67893821
info@cwb-berlin.de

1.4 Emergency number:

Emergency number: 030 30686 700 (24-hour information)

SECTION 2: Potential Hazards**·2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 4 H302 Acute toxicity orally.
Skin Corr. 1A H314 Corrosive/irritating effect on the skin.
Eye Dam. 1 H318 Severe eye damage/irritation.
STOT SE 3 H335 Respiratory irritation.
Repr. 2 H361f reproductive toxicity f.

·2.2 Identification elements:**· Marking according to Regulation EC No. 1272/2008**

The product is classified and labelled according to the CLP Regulation.

· Hazard pictograms:

GHS 05 GHS 07 GHS 08

·Signal Word: Danger**· Hazard-determining component for labelling:**

2-Aminoethanol
Cyclohexylamin

·Hazard statements:

H302 + H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and severe eye damage.
H335 May irritate the respiratory tract.
H361f Believed to affect fertility.

Safety precautions:

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General

- P101 If medical advice is required, have packaging or identification label ready.
 P102 Keep out of reach of children.
 P103 Read the label before use.

Prevention

- P260 Do not inhale dust/fume/gas/mist/vapour/aerosol.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P264 Wash thoroughly after use.

Reaction

- P301+P330+P331 IF SWALLOWED: RINSE MOUTH. DO NOT induce vomiting.
 P303+P361+P353 IN CONTACT WITH SKIN (or hair): All contaminated garments move out immediately. Wash skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse gently with water for a few minutes. If possible, remove any contact lenses. Continue rinsing.
 P304+P340 IF INHALED: Remove the person to fresh air and allow unobstructed breathing.
 P308+P313 IN case of EXPOSURE or if concerned: Seek medical advice/medical attention

·2.3 Other hazards**·Results of PBT and vPvB assessment**

- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/Ingredient Indications**·3.1 Chemical Characterization: Mixtures**

- **Description:** Mixture of the following substances and harmless admixtures in water

·Hazardous Ingredients:

2-Aminoethanol CAS: 141-43-5 EINECS: 205-483-3 Reg.nr.: 01-2119486455-28-xxxx	Classification according to Regulation (EC) No 1272/2008: Met.Corr. 1, H290; Acute Tox. 4, H312; Acute Tox. 4, H332; Acute Tox. 4, H302; Skin Corr. 1B, H314; STOT SE 3, H335	10-25%
Cyclohexylamin CAS: 108-91-8 EINECS: 203-629-0 Reg.nr.: 01-2119486803-29-xxxx	Classification according to Regulation (EC) No 1272/2008: Flam. Liq. 3, H226; Skin Corr. 1B, H314; Repr. 2, H361f; Acute Tox. 4, H302; Acute Tox. 3, H311	3-10%
(Z)-N-9-Octadecenylpropane-1,3-Diamine CAS: 7173-62-8 EINECS: 230-528-9 Reg.nr.: 01-2119487002-46-xxxx	Classification according to Regulation (EC) No 1272/2008: Acute Tox. 4, H302; Skin Corr. 1B, H314; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<1%

- 3.2 Additional Notes: The wording of the hazard warnings cited can be found in Section 16.

SECTION 4: First Aid Measures**·4.1 Description of first aid measures**

- **General information:** Remove garments contaminated with product immediately.
- **After inhalation:** In case of unconsciousness, position and transport in a stable lateral position.
- **After skin contact:** Wash off immediately with soap and water and rinse well.

·After eye contact:

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If the eyelid gap is open, rinse the eyes under running water for several minutes and consult a doctor.

· **If swallowed:** Drink plenty of water and fresh air. Consult a doctor immediately.

· **4.2 Main acute and delayed symptoms and effects**

No other relevant information available.

· **4.3 Indications of immediate medical assistance or special treatment**

No other relevant information available.

SECTION 5: Fire-fighting measures

· **5.1 Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.

· **5.2 Special hazards posed by the substance or mixture**

No other relevant information available.

· **5.3 Instructions for firefighting**

· **Special protective equipment:** No special measures required.

SECTION 6: Measures to be taken in the event of accidental release

· **6.1 Personal precautions, protective equipment and procedures to be used in emergencies**

Not required. Wear protective equipment. Keep unprotected people away.

· **6.2 Environmental protection measures:**

Dilute with plenty of water.

Do not allow to enter sewerage/surface water/groundwater.

· **6.3 Methods and materials for retention and cleaning:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust).

Apply neutralizing agents.

Dispose of contaminated material as Section 13 waste. Provide adequate ventilation.

· **6.4 Reference to Other Sections**

For information on safe handling, see section 7.

For information on personal protective equipment, see section 8.

For information on disposal, see section 13.

SECTION 7: Handling and Storage

· **7.1 Safeguards for safe handling**

Ensure good ventilation/extraction in the workplace.

Avoid aerosol formation.

· **Notes on fire and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, taking into account incompatibilities**

· **Storage:**

· **Requirements for storage rooms and containers:** No special requirements.

· **Storage instructions:** Do not store together with acids.

· **Further information on storage conditions:**

Protect from frost.

Keep container tightly closed.

· **Stock class:**

· **VbF-Class:** not applicable

· **Classification according to the German Ordinance on Industrial Safety and Health (BetrSichV):** -

· **7.3 Specific end-use applications** No other relevant information available.

SECTION 8: Exposure Limitation and Monitoring/Personal Protective Equipment

· Additional information on the design of technical installations: No further information, see section 7.

· **8.1 Parameters to be monitored**

Components with workplace-related limit values to be monitored:

141-43-5 2-Aminoethanol (10-25%)

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AGW (Germany)	Long-term value: 5.1 mg/m ³ , 2 ml/m ³ DNEL-Werte2(I); DFG, EU, H, Y, Sh, 11 Dermal Long-term systemic effects 1 mg/kg bw/day
MAK (Switzerland)	Short-term value: 10 mg/m ³ , 4 ml/m ³ Inhalation Long-term systemic effects 3.3 mg/m ³ Long-term value: 5 mg/m ³ , 2 ml/m ³ S;

108-91-8 Cyclohexylamin 3-10%

AGW (Germany)	Long-term value: 8.2 mg/m ³ , 2 ml/m ³ DNEL-Werte2(I); DFG, EU, H, Y, Sh, 11 Dermal Long-term systemic effects 0,4 mg/kg bw/day
MAK (Switzerland)	Short-term value: 16.4 mg/m ³ , 4 ml/m ³ Inhalation Acute-systemic effects 8.2 mg/m ³ Long-term value: 8.2 mg/m ³ , 2 ml/m ³ Dermal Long-term systemic effects 0,4 mg/kg H SSc; Inhalation Long-term – systemic effects 5 mg/m ³

• **Additional information:** The lists valid at the time of creation served as a basis.

• **8.2 Exposure limitation and monitoring**

• **Personal Protective Equipment:**

• **General protection and hygiene measures:**

Keep away from food, beverages and feed.

Remove soiled, soaked clothes immediately. Wash your hands before breaks and at the end of work. Avoid contact with eyes and skin.

• **Respiratory protection:** Not required.

• **Hand Protection:**



Gloves.

• **Glove Material:** Nitrile Rubber

• **Eye Protection:**



Tight-fitting goggles.

SECTION 9: Physical and Chemical Properties

• **9.1 Information on basic physical and chemical properties**

• **General information**

• **Appearance:**

Form:	Liquid
Color:	Colourless to yellowish
Smell:	Characteristic
Odour threshold:	Not definitely.

• **pH value at 20 °C:** approx. 12.5

• **State**

Melting point/melting range:	-10 °C
Boiling point/boiling range:	approx. 100 °C

• **Flash point:** Not applicable.

• **Flammability (solid, gaseous):** Not applicable.

• **Ignition temperature:** Not applicable.

• **Decomposition Temperature:** Not definitely.

• **Spontaneous combustion:** The product is non-self-combustible.

• **Danger of explosion:** The product is not explosive.

• **Explosions Limits:**

Inferior:	Not definitely.
Upper:	Not definitely.

• **Vapor pressure:** like water

• **Density at 20 °C:** 1 +/- 0,1 g/cm³

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·Relative Density	Not definitely.
·Vapour density	Not definitely.
·Evaporation rate	Not definitely.
<hr/>	
·Solubility in / miscibility with Water:	Fully miscible.
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·Partition coefficient (n-octanol/water):	Not definitely.
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·Viscosity:	
Dynamic:	Not definitely.
Kinematic:	Not definitely.
·9.2 Other particulars	No other relevant information available.

SECTION 10: Stability and Reactivity

·10.1 Reactivity

No known dangerous reactions when handled as directed.

·10.2 Chemical stability

·Thermal Decomposition / Conditions to Avoid: No decomposition when used as directed.

·10.3 Possibility of Dangerous Reactions No known dangerous reactions.

·10.4 Conditions to avoid: No other relevant information available.

·10.5 Incompatible Materials: No other relevant information available.

·10.6 Hazardous decomposition products: No known hazardous decomposition products.

SECTION 11: Toxicological claims

·11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

141-43-5 2-Aminoethanol

Oral	LD50	1515 mg/kg (Council)
Dermal	LD50	2000 mg/kg (rabbit)

108-91-8 Cyclohexylamin

Oral	LD50	300 mg/kg (RAT)
Dermal	LD50	275 mg/kg (rabbit)

· Primary irritant:

· on the skin: Corrosive effect on the skin and mucous membranes.

·on the eye: Strong corrosive effect.

· Sensitization: No known sensitizing effect.

· Additional Toxicological Notes:

Due to the calculation method of the General Classification Directive of the EC for preparations in the latest version pose the following risks:

Corrosive

Charming

If swallowed, strong corrosive effect of the oral cavity and throat as well as risk of perforation of the esophagus and stomach.

·CMR effects (carcinogenic, mutagenic and toxic to reproduction)

No further information available

SECTION 12: Environmental claims

·12.1 Toxicity

· Aquatic toxicity: No other relevant information available.

·12.2 Persistence and degradability: 70% biodegradable (OECD301F, manometric respiration test)

·12.3 Bioaccumulation potential: No other relevant information available.

·12.4 Mobility in the ground: No other relevant information available.

· Other ecological information:

· General information:

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according to IBC code: Not applicable.

Transport/other information:

- Tunnel Restriction Code: E

SECTION 15: Legislation

·15.1 Safety, health and environmental protection rules/specific legislation for the

Substance or mixture

· National Regulations:

· Classification according to the Ordinance on Industrial Safety and Health (BetrSichV): -

· Technical Instructions Air:

Class	Share in %
NK	10-25

Water hazard class:

WGK 1 (self-classification): slightly hazardous to water.

·15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 16: Other Disclosures

The information is based on the current state of our knowledge, but it does not represent a guarantee of product properties and does not establish a contractual legal relationship.

· **Relevant Phrases**

H226 Flammable liquid and vapour.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful to health in contact with skin.

H314 Causes severe skin burns and severe eye damage.

H332 Harmful if inhaled.

H335 May irritate the respiratory tract.

H361f Believed to affect fertility.

H372 Damages organs with prolonged or repeated exposure.

H400 Very toxic to aquatic organisms.

H410 Very toxic to aquatic organisms with long-term effects.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent